

Submitted for recognition as an American National Standard

AXLE END STANDARDIZATION

Foreword—This Document has not changed other than to put it into the new SAE Technical Standards Board Format.

1. Scope—This SAE Recommended Practice is intended for hubs and spoke wheels used on Class 7 and 8 truck/truck-tractor nonpowered front axles, powered and nonpowered rear axles, and trailer axles.

1.1 Purpose—The purpose of this document is to establish dimensional guidelines to promote a functional standardization of wheel hubs and spoke wheels in the areas of fasteners, bearing cups, seal bore, and axle drive shaft or hub cap attachment. This document is not intended to exclude the use of wheel hub designs which do not meet the dimensional guidelines for use on defined axle configurations.

2. References

2.1 Related Publications—The following publications are for information purposes only and are not a required part of this document.

2.1.1 SAE PUBLICATIONS—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE J393—Nomenclature—Wheels, Hubs, and Rims for Commercial Vehicles

SAE J694—Disc Wheel/Hub or Drum Interface Dimensions—Commercial Vehicles

2.1.2 ISO PUBLICATIONS—Available from ANSI, 11 West 42nd Street, New York, NY 10036-8002.

ISO 4107—Road vehicles—Wheels for commercial vehicles

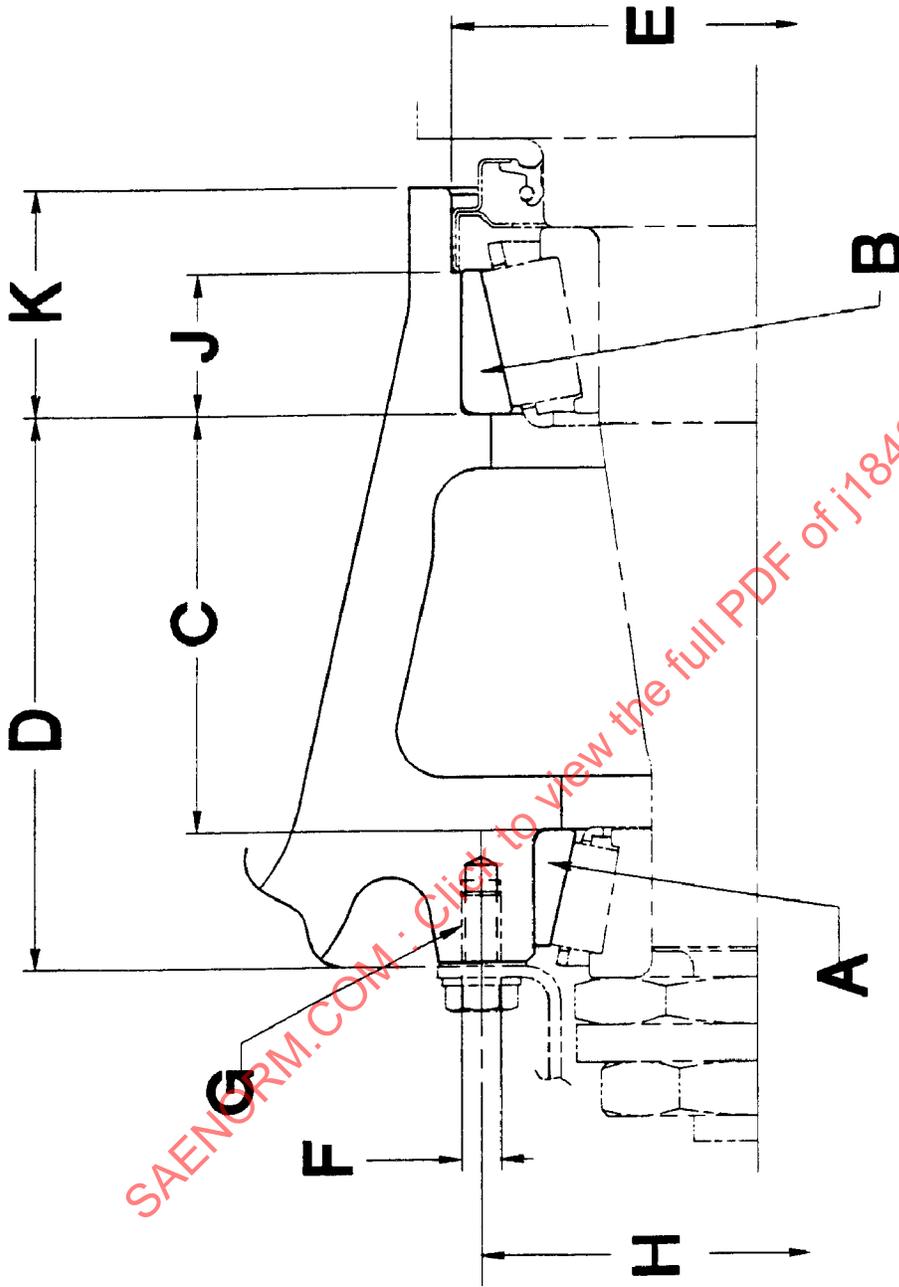
ISO 7575—Road vehicles—Wheels for commercial vehicles—Flat attachment—Fixing nuts

3. Definitions—A listing of the basic nomenclature and definitions is shown as follows. All dimensions are in inches. A hub shall be defined as a disc wheel hub or the hub area of spoke wheels. (See Figure 1, Figure 2, and Figure 3.)

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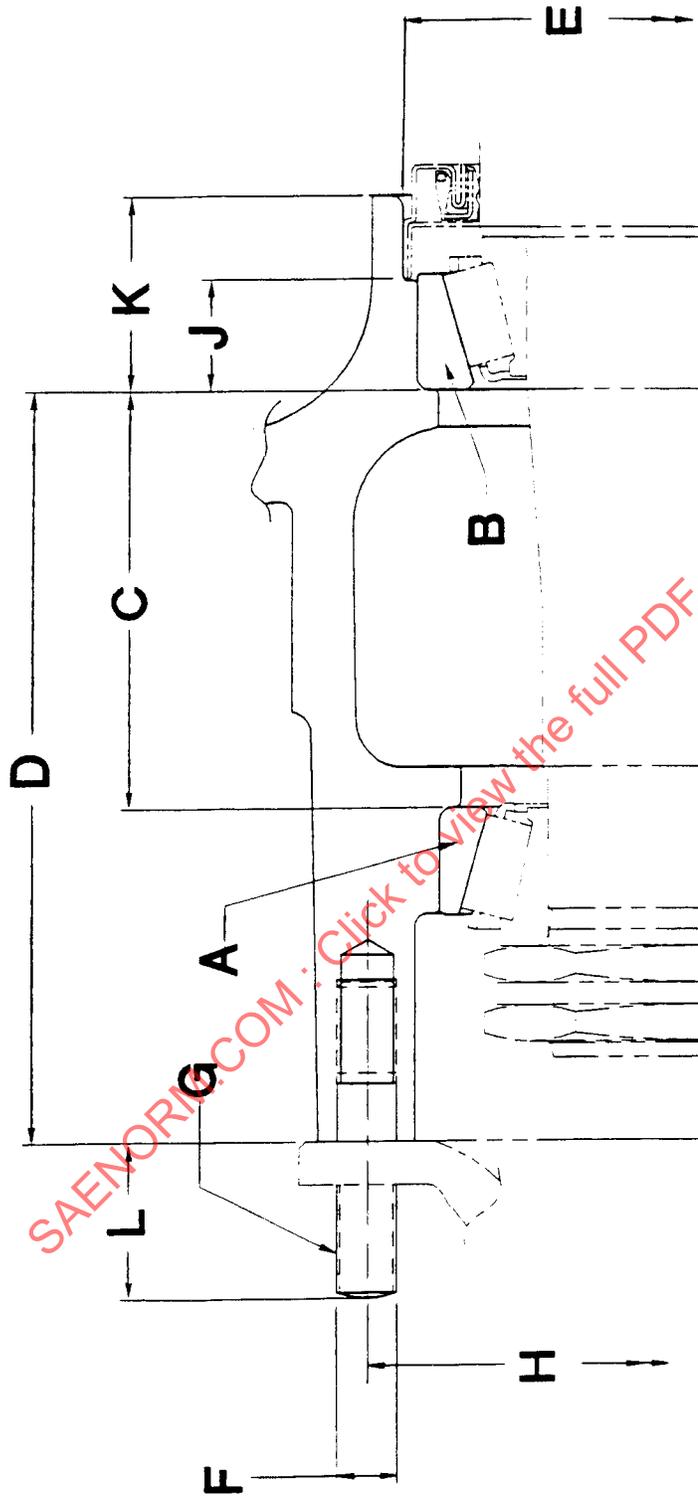


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SAE CONFIGURATION	A	B	C	D	E	G	H	J	K
FC/FD	3525	39520	3.22	4.60	4.54	5/16-18	4.50	0.94	1.53
FF/FG	3720	HM212011	3.38	4.43	4.84	5/16-18	4.50*	1.15	1.83
FL	552A	6420	3.03	4.84	5.90	5/16-18	5.50	1.70	2.20

* 5.50 IS ALSO COMMONLY USED WITH "D" OF 5.50

FIGURE 1—NONPOWERED FRONT HUB/WHEEL

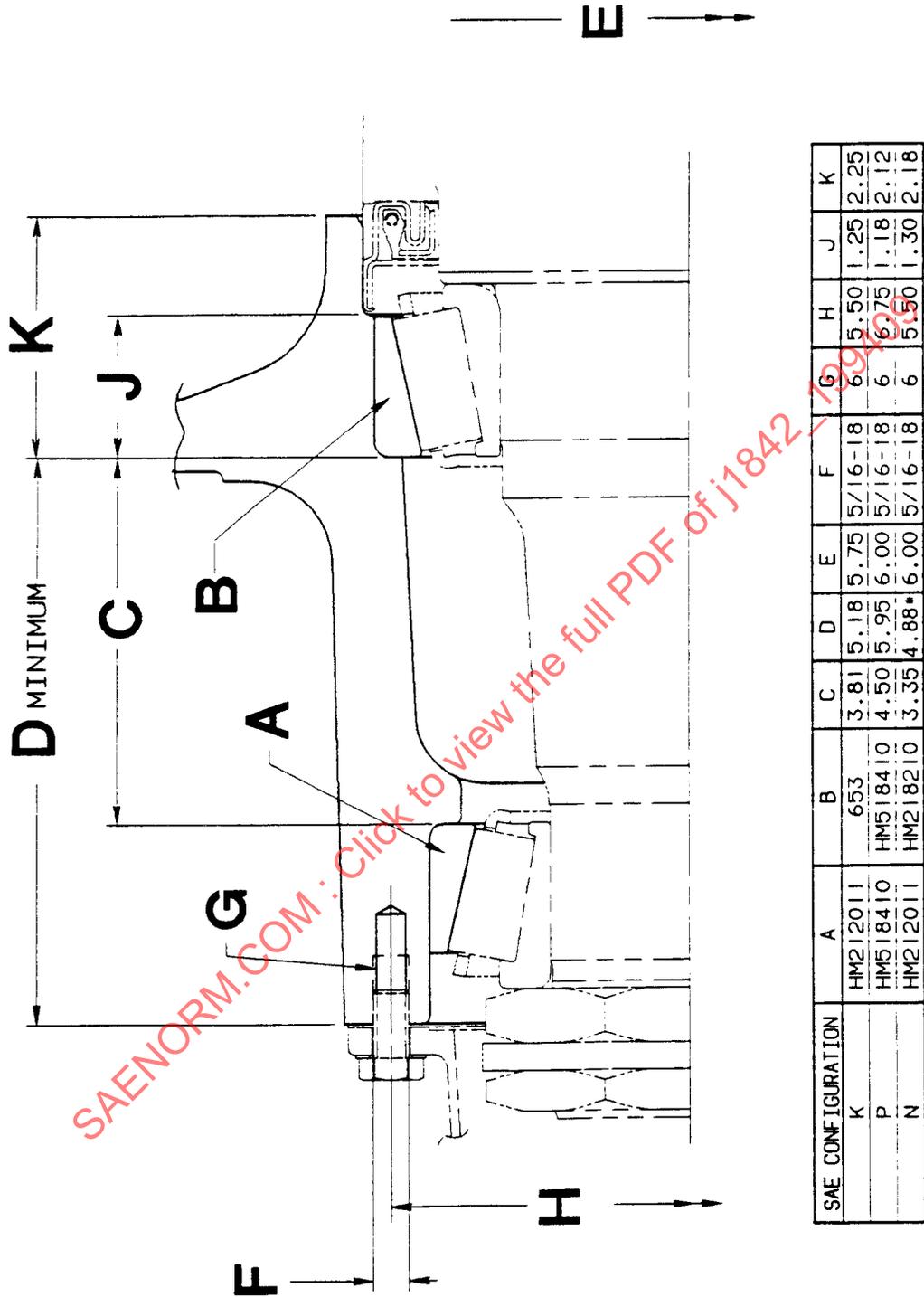


SAE CONFIGURATION	A	B	C	D	E	F	G	H	J	K	L
L	39520	47620	4.62	7.31	5.69	1/2-20	12	5.25	1.43	2.31	1.31
R	572	592A	4.31	6.90▲	6.31	3/4-16*	8	7.00	1.18	2.00	1.56

*5/8-18 IS ALSO COMMONLY USED

▲ 7.75 IS ALSO COMMONLY USED

FIGURE 2—POWERED REAR HUB/WHEEL



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* LENGTHS UP TO 5.69 ARE ALSO COMMON

FIGURE 3—TRAILER HUB/WHEEL